

PASSIVE WATER MANAGEMENT SYSTEM FOR A  
FUEL CELL POWER PLANT

Abstract of the Disclosure

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The invention includes an anode fuel flow field (100) adjacent a fuel cell (12) electrolyte (18) that defines a fuel path (102) between a fuel inlet (108) and a fuel outlet (110) and includes a cooler plate (118) in  
10 heat exchange relationship with the anode fuel flow field (100) that defines a coolant path (120) between a coolant inlet (126) and a coolant outlet (128). The fuel path (102) has a width (132) that is about the same as a width (134) of the coolant path (120) where the fuel path (102) and the coolant path (120) are closest to each other, and  
15 the fuel path (102) substantially overlies the coolant path (120) to minimize evaporation of water from water management flow fields (20) (22) and/or the electrolyte (18) into the fuel within the fuel path (102).

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